### homework7

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#### Read data

```
marvel = read.csv('F:\\UIUC\\590DV\\homework7\\marvel-wikia-data.csv',header
= TRUE, stringsAsFactors = FALSE)
dc = read.csv('F:\\UIUC\\590DV\\homework7\\dc-wikia-data.csv',header = TRUE,
stringsAsFactors = FALSE)
```

#### Who wins?

#### Absolutely MARVEL!

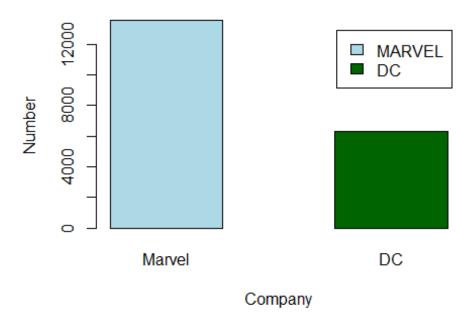
As for who wins among Marvel and DC, I believe we need to know the percentage of how many bad guys and good guys in those universe so that we can how many bad guy on average do a good guy fight against.

Because the rows in two data frame are different as well as the type of align, we need to create a new data frame to analysis.

```
mg = length(marvel$ALIGN[which(marvel$ALIGN=='Good Characters')])
mb = length(marvel$ALIGN[which(marvel$ALIGN=='Bad Characters')])
mn = length(marvel$ALIGN[which(marvel$ALIGN=='Neutral Characters')])
dg = length(dc$ALIGN[which(dc$ALIGN=='Good Characters')])
db = length(dc$ALIGN[which(dc$ALIGN=='Bad Characters')])
dn = length(dc$ALIGN[which(dc$ALIGN=='Neutral Characters')])
dt = length(dc$ALIGN[which(dc$ALIGN=='Neutral Characters')])
md = data.frame(m = c(mg,mb,mn,mt = c(0)),d = c(dg,db,dn,dt),stringsAsFactors
= FALSE)
```

Now, let's take a look at how many good and bad characters are in Marvel and DC. First, Let's take a look at how many characters are in those company

## Characters in Marvel and DC

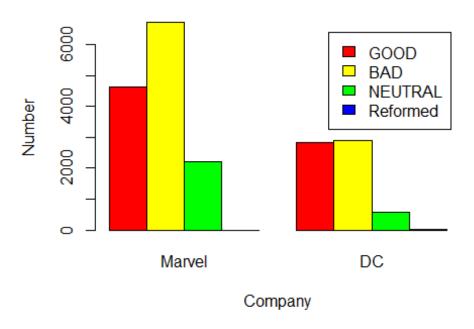


We can see that

Marvel has more character than DC, indicating Marvel is better.

Then, lets see how many of each good, bad and neutral character.

## Characters in Marvel and DC

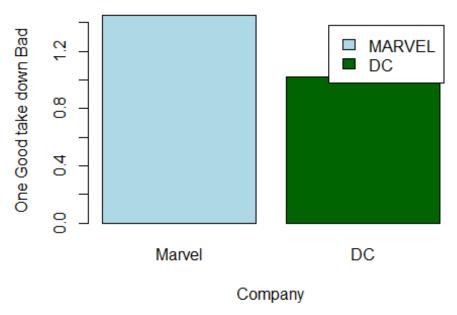


We see Marvel has

more bad characters and more good characters than DC

So, one god character need to take down how many bad character on average in those two companies?

# Characters in Marvel and DC



 $Thus, good \\ characters in marvel need to take down more bad guys than in DC. Hence, heros in Marvel \\ are better than heros in DC. Thus, Marvel wins!$